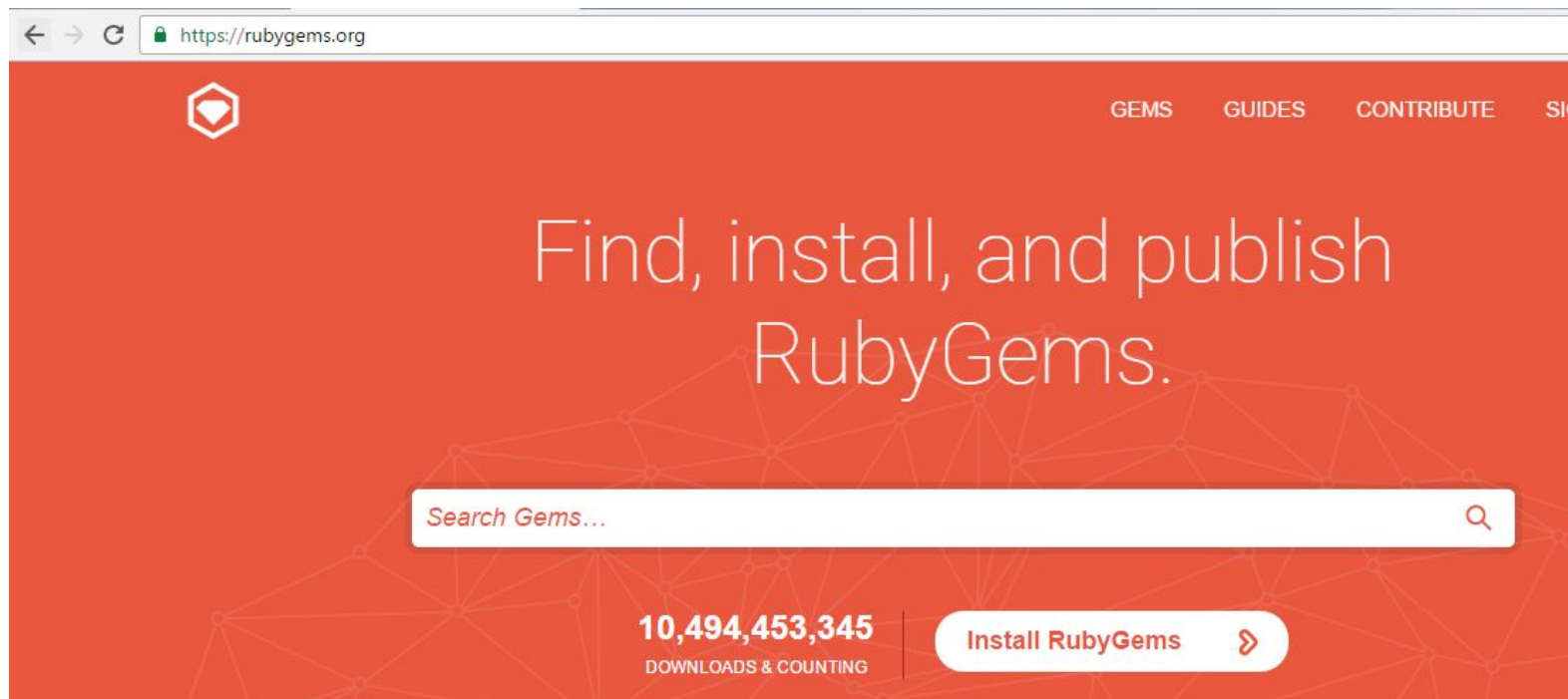

Introducción a Ruby on Rails

— Ruby Gems / HTTP Party —

Overview

- Ruby gems
- Cómo utilizar la gema HTTPParty

Ruby Gems - 3rd party plugins / additions



Gem

- Package Manager

→ `gem`

RubyGems is a sophisticated package manager for Ruby. This is a basic help message containing pointers to more information.

Usage:

```
gem -h/--help
gem -v/--version
gem command [arguments...] [options...]
```

Examples:

```
gem install rake
gem list --local
gem build package.gemspec
gem help install
```

Further help:

<code>gem help commands</code>	list all 'gem' commands
<code>gem help examples</code>	show some examples of usage
<code>gem help platforms</code>	show information about platforms
<code>gem help <COMMAND></code>	show help on COMMAND (e.g. 'gem help install')
<code>gem server</code>	present a web page at <code>http://localhost:8808/</code> with info about installed gems

Further information:

<http://guides.rubygems.org>

RubyGems package manager

- Gem es un package manager que viene instalado con la instalación de ruby.
- **gem list httparty**

```
→ ~ gem list httparty  
*** LOCAL GEMS ***  
httparty (0.14.0)
```

```
→ ~ gem list pp  
*** LOCAL GEMS ***  
_
```

Instalando HTTP Party

- `gem install httparty`

```
→ ruby-on-rails-intro git:(master) ✖ gem install httparty
Fetching: multi_xml-0.5.5.gem (100%)
Successfully installed multi_xml-0.5.5
Fetching: httparty-0.14.0.gem (100%)
When you HTTParty, you must party hard!
Successfully installed httparty-0.14.0
2 gems installed
```

Más detalles de los gems

- `gem list httparty -d`

```
→ ~ gem list httparty -d
```

```
*** LOCAL GEMS ***
```

```
httparty (0.14.0)
```

```
  Authors: John Nunemaker, Sandro Turriate
```

```
  Homepage: http://jnunemaker.github.com/httparty
```

```
  License: MIT
```

```
  Installed at: /home/vanessa/.rbenv/versions/2.0.0-p481/lib/ruby/gems/2.0.0
```

```
  Makes http fun! Also, makes consuming restful web services dead  
  easy.
```

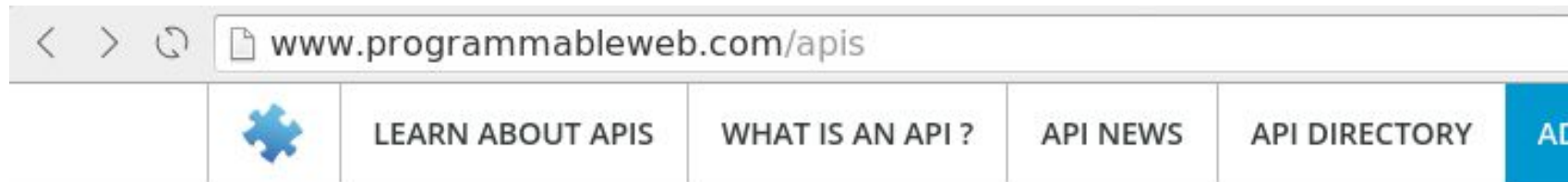
Qué son los servicios web RestFul?

- Son web services implementados utilizando HTTP y los principios de REST.
 - Tienen una URI base
 - Soportan un formato de intercambio de datos: XML, Json
 - Soportan un set de métodos HTTP (Get, Post, Put, etc).

HTTParty Gem

- Cliente de Web Services Restful
 - Comunicación entre máquinas, intercambio de datos.
- Parsing automático de Json y Xml en hashes.
- Provee soporte para:
 - Basic Authentication
 - Parámetros por defecto de los requests

Existen muchas APIs en todos lados



TOP 10 NEW APIs

1. Oracle Monit...

[Track this API](#)

6. MasterCard M...

2. OpenStack Fr...

[Track this API](#)

7. MasterCard M...

3. YouTube Cont...

[Track this API](#)

8. MasterCard S...

4. Agora Intera...

[Track this API](#)

9. Bootswatch

5. Amazon List...

[Track this API](#)

10. W3C The Per...



Search Gems...



GEMS

GUIDES

CONTRIBUTE

Guides

RUBYGEMS BASICS

WHAT IS A GEM?

MAKE YOUR OWN GEM

GEMS WITH EXTENSIONS

NAME YOUR GEM

PUBLISHING YOUR GEM

SECURITY PRACTICES

SSL CERTIFICATE UPDATE

PATTERNS

SPECIFICATION REFERENCE

COMMAND REFERENCE

RUBYGEMS API

RUBYGEMS.ORG API

RUN YOUR OWN GEM SERVER

Details on interacting with RubyGems.org over HTTP.

*NOTE: The API is a work in progress, and **can use your help!** RubyGems itself and the **RubyGems** gem use the API to push gems, add owners, and more.*

- **API Authorization:** How to authenticate with RubyGems.org
- **Gem Methods:** Query or create gems to be hosted
- **Gem Version Methods:** Query for information about versions of a particular gem
- **Gem Download Methods:** Query for download statistics
- **Owner Methods:** Manage owners for gems

API RUBY GEM

URI base

Parámetros

<https://rubygems.org/api/v1/search.json?query=cucumber>

```
[
- {
  name: "cucumber",
  downloads: 12261945,
  version: "2.4.0",
  version_downloads: 471851,
  platform: "ruby",
  authors: "Aslak Hellesøy, Matt Wynne, Steve Tooke",
  info: "Behaviour Driven Development with elegance and joy",
  licenses: [
    "MIT"
  ],
  metadata: { },
  sha: "307e87c24e250d015c1d9990a7d79f7bdd9b239aa25681fd861fe491541892cc",
  project_uri: "https://rubygems.org/gems/cucumber",
  gem_uri: "https://rubygems.org/gems/cucumber-2.4.0.gem",
  homepage_uri: "https://cucumber.io/",
  wiki_uri: "http://wiki.github.com/cucumber/cucumber",
  documentation_uri: "http://cukes.info",
  mailing_list_uri: "http://groups.google.com/group/cukes",
}
```

Como usar HTTParty

- Incluir el módulo
 - include **HTTParty**
- Se pueden especificar:
 - **base_uri**: para todos los **requests**
 - **default_params**: un **API Key** por ejemplo
 - **format**: el formato **esperado**

Test con RubyGems API

```
require 'httparty'
class RemoteGem
  include HTTParty

  base_uri "rubygems.org/api/v1"
  default_options.update(verify: false)

  attr_accessor :name, :info, :version, :authors, :downloads

  def initialize(name, info, version, authors, downloads)
    self.name = name
    self.info = info
    self.version = version
    self.authors = authors
    self.downloads = downloads
  end

  # Returns the versions for this particular RemoteGem
  def versions
    response = self.class.get("/versions/#{name}.json")
    if response.success?
      response
    else
      raise response.response
    end
  end
end
```

```
# Find a particular gem, based on its name
def self.find(name)
  response = get("/gems/#{name}.json")
  if response.success?
    self.new(response["name"], response["info"],
             response["version"], response["authors"],
             response["downloads"])
  else
    # this just raises the net/http response that was raised
    raise response.response
  end
end
end
```

```
httparty = RemoteGem.find("httparty")
puts httparty
puts httparty.versions
```

Practica 1 - Google Translate API

(1)

- La API de Google para traducir textos:
<https://cloud.google.com/translate/v2/translate-reference>
- Utilizando Httparty traducir un texto con el servicio:
 - <https://www.googleapis.com/language/translate/v2>
- Los parámetros:
 - **key** : API KEY habilitado para la utilización de la api, por ahora se puede usar: AlzaSyBdqijZunlGxiU5ubdmKlp2VqxqR7GYLsQ
 - **q**: el texto que se quiere traducir
 - **source**: idioma de origen (en)
 - **target**: idioma destino (es)

Practica 1 - Pruebas manuales - Json Respuesta (2)

- <https://developers.google.com/apis-explorer/?hl=es#p/translate/v2/>

Translate

```
-{
  -"data": {
    -"translations": [
      -{
        "translatedText": "Hola",
        "detectedSourceLanguage": "en"
      }
    ]
  }
}
```

Detect

```
-{
  -"data": {
    -"detections": [
      -[
        -{
          "language": "en",
          "isReliable": false,
          "confidence": 1
        }
      ]
    ]
  }
}
```


Practica 1 - Google Translate API

(2)

- Implementar otro servicio para la detección de lenguaje:
- <https://www.googleapis.com/language/translate/v2/detect?parameters>
- Parámetros:
 - **key** : API KEY habilitado para la utilización de la api, por ahora se puede usar:
AlzaSyBdqjZunlGxiU5ubdmKlp2VqxqR7GYLsQ
 - **q**: el texto del cual se desea detectar el idioma